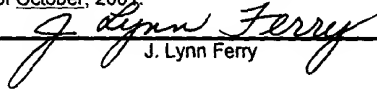




PCT
JC10 Rec'd PCT/PTO 1 6 OCT 2001

Attorney Docket No. 5899*13

I hereby certify that this correspondence is being deposited with the United States Postal Service as first-class mail in an envelope addressed to: Commissioner for Patent, Washington, DC 20231 on this 9th day of October, 2001.


J. Lynn Ferry

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Eggeling et al.

Group Art Unit: Not Assigned

Serial No.: 09/914,006

Examiner: Not Assigned

Filed: August 21, 2001

For: METHOD FOR MICROBIALY
PRODUCING L-VALINE

TRANSMITTAL OF TRANSLATION OF PRIORITY DOCUMENT
UNDER MPEP 201.15

Commissioner for Patents
Washington, D.C. 20231

Sir:

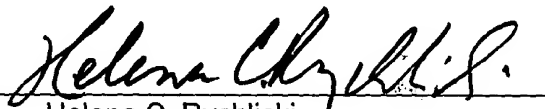
Submitted herewith is a verified translation of applicants' priority application WO 00/50624.

Applicants reiterate the claim of priority under 35 USC 119 and a prompt acknowledgment of receipt of the translation is requested.

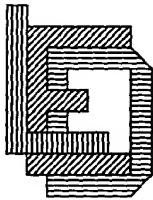
Respectfully submitted,

CONNOLLY BOVE LODGE & HUTZ LLP

By



Helena C. Rychlicki
Registration No. 48,179
1220 Market Street
P.O. Box 2207
Wilmington, DE 19899
Tel: (302) 658-9141
Fax: (302) 658-5614



Leonardo and Elis Duvekot

Translators

Langstraat 38A

2242 KM Wassenaar

The Netherlands

Phone: (+31) 70 511-2999

Fax: (+31) 70 511-2870

e-mail: LEDTRANS@CS.COM

Re: **WO 00/50624 PCT/EP00/01405**

"Process for the microbial production of L-valine"

I, Elise Duvekot, hereby certify that I am fully familiar with the German and English languages and that I am capable of translating from German into English. To the best of my knowledge and belief, the foregoing is an accurate and complete translation of the copy before me in the German language. In witness whereof I sign,

Elise Duvekot

September 27, 2001

(Elise Duvekot, Translator)

Figure 1

[For the figure, please refer to the German original]

Figure 2

[For the figure, please refer to the German original]

Figure 3

[For the figure, please refer to the German original]

SEQUENCE PROTOCOL

(1) GENERAL INFORMATION

(i) APPLICANT:

- (A) NAME: Forschungszentrum Juelich GM GmbH
- (B) STREET: P.O. Box 1913
- (C) CITY: Juelich
- (E) COUNTRY: Germany
- (F) POSTAL CODE: 52425
- (G) PHONE NO.: (+49) 2461-614480
- (H) FAX NO.: (+49) 2461-612860

(ii) DESIGNATION OF THE INVENTION

Valine production

(iii) NUMBER OF SEQUENCES: 5

(iv) COMPUTER-READABLE VERSION:

- (A) DATA CARRIER: floppy disk
- (B) COMPUTER: IBM compatible PC
- (C) OPERATING SYSTEM: PC-DOS/MS-DOS
- (D) SOFTWARE: PatentIn Release # 1.0, version # 1.30 (EPA)

(2) INFORMATION PERTAINING TO SEQ. ID. NO. 1:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 2952 base pairs
- (B) TYPE: nucleotide
- (C) STRAND FORM: single strand
- (D) TOPOLOGY: linear

(ii) TYPE OF MOLECULE: genome DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ. ID. NO. 1:

[For the sequence, please refer to the German original]

(2) INFORMATION PERTAINING TO SEQ. ID. NO. 2:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 612 amino acids
- (B) TYPE: amino acid
- (C) STRAND FORM: single strand
- (D) TOPOLOGY: linear

(ii) TYPE OF MOLECULE: protein

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ. ID. NO. 2:

[For the sequence, please refer to the German original]

(2) INFORMATION PERTAINING TO SEQ. ID. NO. 3:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 2164 base pairs
- (B) TYPE: nucleotide
- (C) STRAND FORM: single strand
- (D) TOPOLOGY: linear

(ii) TYPE OF MOLECULE: genome DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ. ID. NO. 3:

[For the sequence, please refer to the German original]

(2) INFORMATION PERTAINING TO SEQ. ID. NO. 4:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 271 amino acids
- (B) TYPE: amino acid
- (C) STRAND FORM: single strand
- (D) TOPOLOGY: linear

(ii) TYPE OF MOLECULE: protein

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ. ID. NO. 4:

[For the sequence, please refer to the German original]

(2) INFORMATION PERTAINING TO SEQ. ID. NO. 5:

(i) SEQUENCE CHARACTERISTICS:

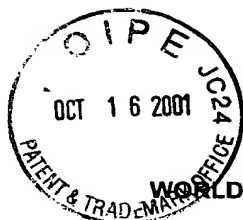
- (A) LENGTH: 279 amino acids
- (B) TYPE: amino acid
- (C) STRAND FORM: single strand
- (D) TOPOLOGY: linear

- (ii) TYPE OF MOLECULE: protein
- (iii) HYPOTHETICAL: NO
- (iv) ANTISENSE: NO
- (xi) SEQUENCE DESCRIPTION: SEQ. ID. NO. 5:

[For the sequence, please refer to the German original]

Translation by: Duvekot Translators
Langstraat 38A
2242 KM Wassenaar
The Netherlands
Phone: (+31) 70 - 511-2999
Fax: (+31) 70 - 511-2870
e-mail: LEDTRANS@CS.COM





PTO/PCT Rec'd 16 OCT 2001

TRANSLATION

#3

PCT

WORLD ORGANIZATION FOR INTELLECTUAL PROPERTY



INTERNATIONAL OFFICE

INTERNATIONAL APPLICATION PUBLISHED IN ACCORDANCE WITH THE PATENT COOPERATION TREATY (PCT)

[51] International Patent Classification⁷: C12P 13/06, C12N 1/21	A1	[11] International Publication Number: WO 00/50624 [43] International Date of Publication of the Application: August 31, 2000
[21] International Application Number: PCT/EP00/01405 [22] International Date of Filing: February 21, 2000 [30] Priority dates: 199 07 567.0 February 22, 1999 (DE) [71] Applicant (for all Contracting States, except for the United States): FORSCHUNGSZENTRUM JÜLICH GMBH [DE/DE]; Postfach (P.O. Box) 1913 D-52425 Jülich, Germany (DE) [72] Inventors; and [75] Inventors/applicants (only for the United States): EGGELING, Lothar [DE/DE] Elsenkamp 6 D-52428 Jülich, Germany (DE) SAHM, Hermann [DE/DE] Wendelinusstrasse 71 D-52428 Jülich, Germany (DE)	[74] Representative: PIELKEN, Petra Becker-Gundahl-Strasse 36 D-81479 Munich Germany (DE) [81] Contracting States: CZ, JP, KR, SK, US, ZA, European Patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE) Published <i>With an international search report.</i>	
[54] Title: Process for the microbial production of L-valine.		
[57] Abstract: The present invention relates to a process for the microbial production of L-valine in which the dihydroxy acid-synthase (ilvD) activity and/or the ilvD gene expression is intensified in a microorganism. As an alternative or in combination with this, the acetohydroxy acid-synthase (ilvBN) activity and isomeroeductase (ilvC) activity and/or the ilvBNC gene expression are intensified in a microorganism. The process according to the invention preferably makes use of microorganisms in which the activity of at least one enzyme that is involved in a metabolic pathway that reduces the formation of L-valine is weakened or eliminated. Thus, for instance, the process according to the invention preferably makes use of microorganisms having a defect mutation in the threonine dehydratase (ilvA) gene and/or a defect mutation in one or more genes of the pantothenate synthesis.		

For information purposes only

Codes used to identify the PCT contracting states on the letterhead of publications containing international applications according to the Patent Cooperation Treaty:

AL	Albania	GH	Ghana	MX	Mexico
AM	Armenia	GN	Guinea	NE	Niger
AT	Austria	GR	Greece	NL	The Netherlands
AU	Australia	HU	Hungary	NO	Norway
AZ	Azerbaijan	IE	Ireland	NZ	New Zealand
BA	Bosnia-Herzegovina	IL	Israel	PL	Poland
BB	Barbados	IS	Iceland	PT	Portugal
BE	Belgium	IT	Italy	RO	Rumania
BF	Burkina Faso	JP	Japan	RU	Russian Federation
BG	Bulgaria	KE	Kenya	SD	Sudan
BJ	Benin	KG	Kyrgyzstan	SE	Sweden
BR	Brazil	KP	North Korea	SG	Singapore
BY	Belarus	KR	South Korea	SI	Slovenia
CA	Canada	KZ	Kazakhstan	SK	Slovakia
CF	Central African Republic	LC	St. Lucia	SN	Senegal
CG	Congo	LI	Liechtenstein	SZ	Swaziland
CH	Switzerland	LK	Sri Lanka	TD	Chad
CI	Ivory Coast	LR	Liberia	TG	Togo
CM	Cameroon	LS	Lesotho	TJ	Tajikistan
CN	China	LT	Lithuania	TM	Turkmenistan
CU	Cuba	LU	Luxembourg	TR	Turkey
CZ	Czech Republic	LV	Latvia	TT	Trinidad and Tobago
DE	Germany	MC	Monaco	UA	Ukraine
DK	Denmark	MD	Republic of Moldavia	UG	Uganda
EE	Estonia	MG	Madagascar	US	United States
ES	Spain	MK	The former Yugoslav Republic of Macedonia	UZ	Uzbekistan
FI	Finland	ML	Mali	VN	Vietnam
FR	France	MN	Mongolia	YU	Yugoslavia
GA	Gabon	MR	Mauritania	ZW	Zimbabwe
GB	United Kingdom	MW	Malawi		
GE	Georgia				